

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252565

Luminaire Tested: **LE_6B15D010 EC6B10209035 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10209035 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1582.5 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

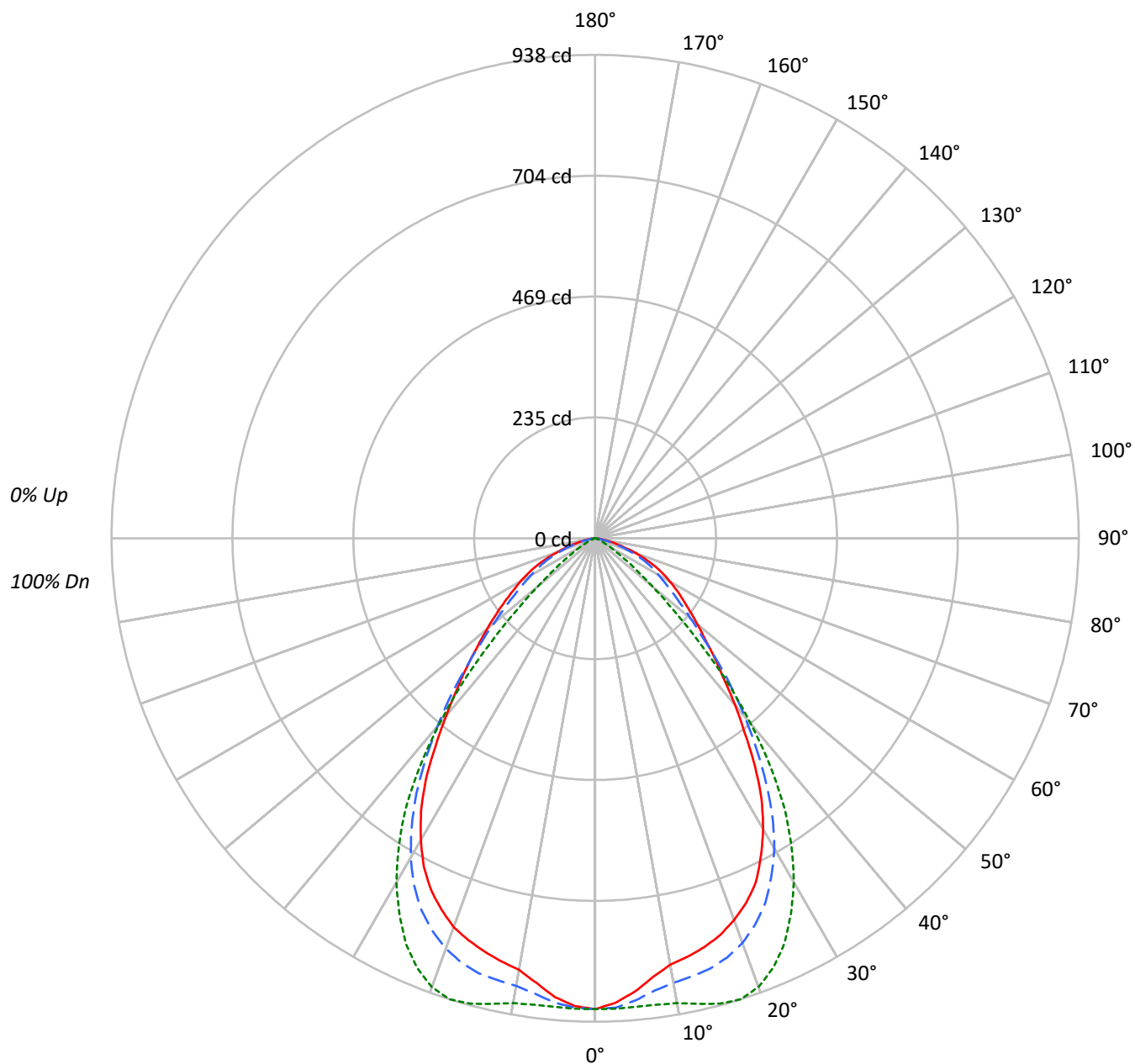
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59604	59604	59604
5°	57828	59766	58522
10°	55634	60669	56323
15°	55439	63138	56073
20°	54709	64318	55736
25°	53067	62497	54212
30°	49102	58082	50925
35°	43072	51060	45596
40°	35897	40028	38231
45°	30207	26406	32256
50°	26166	14473	27769
55°	23670	7689	24273
60°	21777	3993	21777
65°	19729	2130	19235
70°	15928	1221	14707
75°	10889	781	10108
80°	7138	376	6349
85°	4791	749	3892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	5.4
10°-20°	246.4	15.6
20°-30°	364.0	23.0
30°-40°	367.7	23.2
40°-50°	253.4	16.0
50°-60°	145.5	9.2
60°-70°	84.7	5.4
70°-80°	30.9	2.0
80°-90°	4.7	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	695.5	44.0
0°-40°	1063.2	67.2
0°-60°	1462.2	92.4
0°-90°	1582.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	914	914	914	914	914	
5°	883	900	913	904	894	83
15°	821	864	935	874	830	231
25°	737	781	868	796	753	336
35°	541	578	641	604	572	336
45°	327	332	286	353	350	255
55°	208	183	68	190	213	187
65°	128	108	14	107	125	125
75°	43	35	3	34	40	49
85°	6	3	1	4	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	902.0	903.1	904.1	903.1	904.1	908.4	905.2	907.4	907.4	908.4	911.5
5°	883.0	883.0	885.1	884.1	887.2	891.5	888.2	891.5	892.5	894.6	899.9
7.5°	858.8	858.8	859.8	859.8	864.0	868.2	866.1	870.4	874.6	878.8	885.1
10°	839.8	841.9	841.9	842.9	847.1	852.4	851.4	856.6	860.9	867.1	875.6
12.5°	831.2	832.4	832.4	834.4	838.6	844.0	842.9	848.1	854.5	861.9	870.4
15°	820.8	822.9	821.8	823.9	828.1	833.4	832.4	837.6	845.0	852.4	864.0
17.5°	807.0	808.0	809.1	809.1	813.2	817.5	817.5	822.9	831.2	839.8	852.4
20°	788.0	790.1	790.1	791.1	794.2	800.6	799.6	804.9	813.2	821.8	835.5
22.5°	765.8	766.9	766.9	767.9	773.1	776.4	777.4	781.6	789.0	798.5	811.2
25°	737.2	738.4	737.2	740.4	742.5	748.9	746.8	752.0	760.5	767.9	780.6
27.5°	696.1	698.1	698.1	699.2	704.5	709.8	709.8	715.1	722.5	727.8	740.4
30°	651.8	654.9	651.8	657.0	659.1	663.4	666.5	669.6	676.0	683.4	695.0
32.5°	601.0	600.0	601.0	603.1	609.5	612.6	614.8	617.9	624.2	630.6	640.1
35°	540.8	542.9	544.0	548.2	548.2	553.5	554.5	556.6	566.1	570.4	577.8
37.5°	477.4	479.5	480.6	482.8	486.9	489.0	492.2	495.4	501.8	509.1	513.4
40°	421.5	421.5	422.5	424.6	427.8	428.9	432.0	436.2	440.5	446.8	451.0
42.5°	368.6	369.6	368.6	370.8	373.9	378.1	377.1	382.4	383.4	387.6	390.8
45°	327.4	327.4	325.4	327.4	327.4	331.6	330.6	332.8	331.6	333.8	331.6
47.5°	288.4	289.4	288.4	289.4	289.4	289.4	290.5	288.4	289.4	286.2	279.9
50°	257.8	258.8	256.6	257.8	256.6	255.6	256.6	253.5	252.5	248.2	241.9
52.5°	231.4	230.2	229.2	229.2	229.2	228.1	227.1	223.9	220.8	216.5	209.1
55°	208.1	207.0	206.0	206.0	203.9	202.8	202.8	199.6	196.5	191.1	182.8
57.5°	187.0	185.9	184.9	184.9	183.8	181.6	181.6	178.5	174.2	168.0	160.5
60°	166.9	166.9	166.9	165.9	165.9	163.8	163.8	160.5	156.4	150.0	141.5
62.5°	148.9	147.9	147.9	147.9	147.9	146.9	145.8	143.6	139.4	133.1	125.8
65°	127.8	127.8	127.8	127.8	126.8	126.8	126.8	123.6	121.5	115.1	107.8
67.5°	104.6	104.6	104.6	104.6	103.5	104.6	104.6	102.5	100.4	94.0	87.6
70°	83.5	82.4	81.4	82.4	81.4	81.4	82.4	80.2	79.2	73.9	67.6
72.5°	61.2	62.4	61.2	61.2	61.2	60.2	61.2	60.2	58.1	53.9	49.6
75°	43.2	44.4	44.4	43.2	43.2	43.2	42.2	42.2	40.1	37.0	34.9
77.5°	29.6	29.6	29.6	29.6	28.5	28.5	28.5	27.5	26.4	24.2	22.1
80°	19.0	19.0	19.0	19.0	18.0	18.0	18.0	16.9	16.9	14.8	12.6
82.5°	11.6	11.6	11.6	11.6	11.6	11.6	10.5	10.5	9.5	8.5	7.4
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.2	5.2	4.2	3.1
87.5°	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	909.4	910.5	910.5	910.5	913.6	914.8	911.5	908.4	914.8	913.6	915.8
5°	898.9	902.0	904.1	905.2	908.4	910.5	907.4	906.2	911.5	912.6	913.6
7.5°	886.2	891.5	896.8	898.9	903.1	905.2	904.1	904.1	910.5	912.6	912.6
10°	877.8	885.1	891.5	896.8	902.0	905.2	905.2	906.2	913.6	915.8	917.9
12.5°	875.6	885.1	893.6	901.0	905.2	910.5	911.5	914.8	922.1	925.2	925.2
15°	870.4	883.0	893.6	903.1	909.4	915.8	917.9	924.2	932.6	934.8	936.9
17.5°	860.9	873.5	886.2	897.8	906.2	911.5	917.9	924.2	934.8	938.0	939.0
20°	844.0	858.8	871.4	883.0	891.5	898.9	905.2	912.6	922.1	926.4	927.4
22.5°	818.6	833.4	846.0	858.8	867.1	873.5	879.9	888.2	897.8	902.0	902.0
25°	788.0	801.8	815.4	824.9	833.4	840.8	844.0	853.5	863.0	868.2	868.2
27.5°	748.9	761.5	774.2	784.8	790.1	796.4	801.8	810.1	817.5	821.8	826.0
30°	699.2	711.9	723.5	734.1	740.4	746.8	752.0	758.4	765.8	771.0	772.1
32.5°	645.4	655.9	667.5	678.1	684.5	686.5	691.9	698.1	704.5	708.8	709.8
35°	586.2	593.6	601.0	610.5	616.9	616.9	622.1	626.4	631.6	641.1	639.0
37.5°	516.5	527.1	532.4	535.5	539.8	544.0	545.0	550.2	556.6	558.8	561.9
40°	451.0	454.1	457.4	457.4	461.6	461.6	461.6	462.6	469.0	470.0	474.2
42.5°	385.5	385.5	382.4	379.2	380.2	379.2	373.9	373.9	377.1	381.2	381.2
45°	324.2	316.9	307.4	300.0	294.8	292.6	286.2	286.2	285.1	286.2	290.5
47.5°	272.5	259.9	244.0	229.2	223.9	219.8	210.2	206.0	203.9	204.9	207.0
50°	229.2	215.5	197.5	179.5	170.0	164.8	153.1	145.8	144.8	142.6	146.9
52.5°	197.5	180.6	161.6	140.5	131.0	122.5	109.9	103.5	99.2	99.2	100.4
55°	170.0	152.1	131.0	109.9	100.4	94.0	81.4	72.9	68.6	67.6	70.8
57.5°	146.9	129.9	108.8	87.6	78.1	70.8	58.1	50.8	47.5	45.4	46.5
60°	128.9	112.0	90.9	70.8	62.4	53.9	43.2	34.9	30.6	30.6	31.6
62.5°	112.0	96.1	77.1	58.1	50.8	43.2	31.6	24.2	21.1	20.1	21.1
65°	95.0	80.2	64.4	48.6	41.2	34.9	25.4	19.0	14.8	13.8	14.8
67.5°	77.1	65.5	51.8	39.1	32.8	27.5	19.0	13.8	10.5	9.5	10.5
70°	60.2	49.6	39.1	28.5	24.2	20.1	13.8	10.5	7.4	6.4	7.4
72.5°	43.2	35.9	27.5	20.1	16.9	13.8	9.5	7.4	5.2	4.2	5.2
75°	29.6	24.2	18.0	12.6	10.5	9.5	6.4	4.2	3.1	3.1	3.1
77.5°	19.0	14.8	11.6	8.5	6.4	5.2	3.1	2.1	2.1	2.1	2.1
80°	10.5	8.5	6.4	4.2	3.1	3.1	2.1	2.1	1.0	1.0	1.0
82.5°	6.4	4.2	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0
85°	3.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	911.5	912.6	909.4	913.6	910.5	914.8	914.8	910.5	911.5	909.4	913.6
5°	909.4	909.4	907.4	910.5	906.2	910.5	909.4	902.0	904.1	899.9	904.1
7.5°	909.4	907.4	904.1	907.4	902.0	905.2	901.0	893.6	891.5	886.2	886.2
10°	912.6	909.4	905.2	906.2	901.0	902.0	895.8	885.1	882.0	875.6	873.5
12.5°	920.0	916.9	910.5	912.6	905.2	905.2	896.8	884.1	877.8	869.2	867.1
15°	930.5	925.2	917.9	918.9	911.5	907.4	896.8	882.0	873.5	861.9	858.8
17.5°	932.6	927.4	917.9	917.9	908.4	903.1	890.4	873.5	863.0	851.4	845.0
20°	921.0	915.8	905.2	904.1	895.8	888.2	874.6	857.6	847.1	834.4	829.1
22.5°	896.8	890.4	880.9	879.9	871.4	867.1	852.4	835.5	824.9	812.2	808.0
25°	860.9	857.6	848.1	847.1	839.8	834.4	821.8	805.9	796.4	783.8	779.5
27.5°	818.6	815.4	805.9	805.9	797.5	794.2	782.6	767.9	760.5	748.9	743.6
30°	767.9	763.6	758.4	757.4	749.9	746.8	736.2	722.5	715.1	705.6	703.5
32.5°	707.6	704.5	701.4	700.2	692.9	689.8	682.4	668.6	662.2	653.9	650.6
35°	638.0	635.9	632.8	631.6	628.5	625.2	617.9	607.4	604.1	597.9	594.6
37.5°	557.8	559.8	557.8	557.8	554.5	555.6	549.2	542.9	539.8	535.5	533.4
40°	471.1	475.2	478.5	478.5	477.4	481.6	480.6	475.2	474.2	472.1	471.1
42.5°	383.4	385.5	391.9	396.1	395.0	405.6	406.6	410.9	414.0	411.9	413.0
45°	291.5	297.9	306.2	310.5	315.9	329.5	337.0	345.4	352.8	357.0	356.0
47.5°	210.2	217.6	227.1	233.4	242.9	259.9	278.9	289.4	300.0	305.2	310.5
50°	152.1	159.5	171.1	180.6	187.0	210.2	230.2	244.0	255.6	263.0	268.2
52.5°	106.6	115.1	127.8	136.2	145.8	168.0	191.1	207.0	219.8	229.2	234.5
55°	73.9	83.5	95.0	103.5	114.1	137.2	159.5	176.4	190.1	198.6	204.9
57.5°	51.8	60.2	71.9	79.2	89.8	112.0	134.1	151.0	164.8	173.2	180.6
60°	34.9	43.2	54.9	62.4	70.8	93.0	113.0	131.0	143.6	152.1	159.5
62.5°	24.2	31.6	43.2	50.8	58.1	77.1	96.1	112.0	124.6	134.1	140.5
65°	19.0	25.4	34.9	41.2	48.6	64.4	80.2	94.0	106.6	116.1	120.4
67.5°	13.8	20.1	27.5	32.8	38.0	51.8	65.5	76.0	87.6	95.0	100.4
70°	9.5	13.8	20.1	24.2	28.5	39.1	49.6	59.1	67.6	72.9	77.1
72.5°	7.4	9.5	13.8	16.9	20.1	27.5	35.9	43.2	49.6	53.9	58.1
75°	4.2	6.4	9.5	11.6	13.8	19.0	24.2	29.6	33.8	37.0	39.1
77.5°	2.1	3.1	5.2	6.4	8.5	11.6	15.9	19.0	22.1	24.2	26.4
80°	2.1	2.1	3.1	3.1	4.2	6.4	8.5	10.5	12.6	14.8	15.9
82.5°	1.0	1.0	2.1	2.1	2.1	3.1	4.2	6.4	7.4	8.5	9.5
85°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	3.1	4.2	5.2	5.2
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	910.5	912.6	911.5	913.6	910.5	909.4	911.5	908.4
5°	898.9	899.9	898.9	898.9	896.8	894.6	896.8	893.6
7.5°	880.9	880.9	877.8	877.8	873.5	871.4	871.4	870.4
10°	866.1	863.0	859.8	860.9	854.5	852.4	851.4	850.2
12.5°	858.8	856.6	851.4	851.4	845.0	842.9	841.9	840.8
15°	850.2	846.0	841.9	840.8	835.5	833.4	832.4	830.2
17.5°	835.5	832.4	827.0	827.0	821.8	820.8	818.6	817.5
20°	819.6	815.4	811.2	811.2	804.9	804.9	801.8	802.8
22.5°	797.5	794.2	790.1	790.1	784.8	783.8	780.6	779.5
25°	771.0	766.9	763.6	762.6	758.4	756.2	755.2	753.1
27.5°	736.2	733.0	729.9	727.8	722.5	721.4	718.2	719.2
30°	692.9	690.8	689.8	687.6	681.2	679.1	679.1	676.0
32.5°	645.4	642.2	640.1	636.9	631.6	630.6	627.4	628.5
35°	587.2	583.0	579.9	580.9	574.6	573.5	571.4	572.5
37.5°	527.1	522.9	518.6	517.5	512.2	512.2	509.1	509.1
40°	464.8	460.5	458.4	458.4	452.1	453.1	450.0	448.9
42.5°	408.8	404.5	403.5	402.4	399.2	398.2	395.0	396.1
45°	356.0	354.9	354.9	352.8	349.6	348.5	349.6	349.6
47.5°	309.5	310.5	309.5	309.5	307.4	309.5	307.4	308.4
50°	270.4	272.5	272.5	272.5	271.5	272.5	272.5	273.6
52.5°	237.6	240.9	239.8	240.9	239.8	241.9	240.9	241.9
55°	209.1	211.2	212.2	213.4	213.4	213.4	213.4	213.4
57.5°	182.8	185.9	187.0	188.0	188.0	190.1	188.0	188.0
60°	161.6	164.8	165.9	166.9	166.9	168.0	165.9	166.9
62.5°	142.6	145.8	145.8	146.9	146.9	146.9	144.8	145.8
65°	123.6	124.6	125.8	125.8	124.6	124.6	123.6	124.6
67.5°	102.5	103.5	102.5	102.5	101.4	101.4	99.2	100.4
70°	79.2	79.2	80.2	79.2	78.1	79.2	78.1	77.1
72.5°	59.1	59.1	59.1	58.1	58.1	57.0	58.1	58.1
75°	40.1	40.1	41.2	41.2	41.2	41.2	40.1	40.1
77.5°	26.4	26.4	26.4	26.4	27.5	26.4	26.4	26.4
80°	16.9	16.9	18.0	18.0	16.9	16.9	16.9	16.9
82.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
85°	6.4	6.4	6.4	6.4	5.2	5.2	5.2	5.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)